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Data Sheet

August 12, 2026

WANDEL & GOLTERMANN

WANDEL & GOLTERMANN ANT-20E ANT-20/STM-16/OC-48 /0.172 JITTER ANALYZER GENERATOR

The WANDEL & GOLTERMANN ANT-20E is a Jitter Analyzer Generator, designed for STM-16/OC-48 and 0.172 jitter analysis. This tool is purposed for testing and validating the performance of high-speed communication systems by analyzing and generating controlled jitter.

**MODEL****Wandel & Goltermann ANT-20E / ANT-20****CALIBRATION****Available on request****CONDITION****Used****STATUS****In stock****RFQ / SKU****ANT-20E / ANT-20****LISTING**<https://aumictechlabs.com/products/ant-20e-ant-20-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The WANDEL & GOLTERMANN ANT-20E is a modular network analyzer and signal generator engineered for jitter and wander characterization in high-speed SDH/SONET systems. It generates and analyzes jitter across data rates from 64 kbit/s to 2.5 Gbit/s (STM-16/OC-48), compliant with ITU-T Recommendations O.171 and O.172. The instrument combines electrical and optical interfaces with a full-color touchscreen and embedded Windows-based PC for test automation and real-time signal analysis. Technical Specifications Data rate range: 64 kbit/s to 2.5 Gbit/s (2488 Mbit/s STM-16/OC-48) Multi-rate support: DS1 to OC-192c and E1 to STM-64c

Jitter/wander generation and analysis up to 2.5 Gbit/s Output jitter, maximum tolerable jitter (MTJ), and jitter transfer function (JTF) measurement Mapping and pointer jitter analysis Peak-to-peak jitter measurement MTIE and TDEV analysis Test pattern generation: PRBS sequences ($2^{11}-1$, $2^{15}-1$, $2^{20}-1$, $2^{23}-1$) with inverted variants Error insertion: bit errors, single error, or error ratio modes Alarm generation: AU-AIS, AIS-C1 through C16, AU-LOP, LOP-C1 through C16 Key Features Dual electrical/optical interface architecture supporting STM-16c/OC-48c electrical and STM-64/OC-192 optical signals Signal structure analysis down to lowest layers at 2.5 Gbit/s Performance analysis per G.826, G.821, M.2100 Overhead analysis: SOH/TOH capture and analysis ATM broadband analyzer/generator with QoS testing for SVC and PVC Bit error rate testing (BERT) Automatic Protection Switching (APS) measurement and switch-over time analysis Trouble Scan for sequential channel testing Remote control via V.24, GPIB, Ethernet, and RS-232 Typical Applications STM-16/OC-48 interface jitter characterization PDH to SDH/SONET mapping validation ATM network performance qualification Development and production testing of high-speed optical systems Field troubleshooting and installation verification Compatibility & Integration Supports PDH (1.5 Mbit/s to 2.5 Gbit/s), SONET/SDH, and ATM protocols. Modular construction enables customization via optional modules including O.172 Jitter Generator/Analyzer (Option BN 3035/90.88) and O.172 Wander Analyzer (Option BN 3035/90.89).

Features & description

From manufacturer datasheet

Technical Specifications

Data rate range: 64 kbit/s to 2.5 Gbit/s (2488 Mbit/s STM-16/OC-48) Multi-rate support: DS1 to OC-192c and E1 to STM-64c Jitter/wander generation and analysis up to 2.5 Gbit/s Output jitter, maximum tolerable jitter (MTJ), and jitter transfer function (JTF) measurement Mapping and pointer jitter analysis Peak-to-peak jitter measurement MTIE and TDEV analysis Test pattern generation: PRBS sequences ($2^{11}-1$, $2^{15}-1$, $2^{20}-1$, $2^{23}-1$) with inverted variants Error insertion: bit errors, single error, or error ratio modes Alarm generation: AU-AIS, AIS-C1 through C16, AU-LOP, LOP-C1 through C16

Key Features

Dual electrical/optical interface architecture supporting STM-16c/OC-48c electrical and STM-64/OC-192 optical signals Signal structure analysis down to lowest layers at 2.5 Gbit/s Performance analysis per G.826, G.821, M.2100 Overhead analysis: SOH/TOH capture and analysis ATM broadband analyzer/generator with QoS testing for SVC and PVC Bit error rate testing (BERT) Automatic Protection Switching (APS) measurement and switch-over time analysis Trouble Scan for sequential channel testing Remote control via V.24, GPIB, Ethernet, and RS-232

Wandel & Goltermann ANT-20E / ANT-20 — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Wandel & Goltermann ANT-20E / ANT-20. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values Request Calibration → Request Repair Quote →

Wandel & Goltermann ANT-20E / ANT-20 price

This Wandel & Goltermann ANT-20E / ANT-20 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Wandel & Goltermann ANT-20E / ANT-20 calibration cost

NIST-traceable calibration for the Wandel & Goltermann ANT-20E / ANT-20 is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Turnaround is 1 to 3 business days after receipt. See full calibration details →

Applications

STM-16/OC-48 interface jitter characterization PDH to SDH/SONET mapping validation ATM network performance qualification Development and production testing of high-speed optical systems Field troubleshooting and installation verification Compatibility & Integration Supports PDH (1.5 Mbit/s to 2.5

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Unit notes

The WANDEL & GOLTERMANN ANT-20E is a modular network analyzer and signal generator engineered for jitter and wander characterization in high-speed SDH/SONET systems. It generates and analyzes jitter across data rates from 64 kbit/s to 2.5 Gbit/s (STM-16/OC-48), compliant with ITU-T Recommendations O.171 and O.172. The instrument combines electrical and optical interfaces with a full-color touchscreen and embedded Windows-based PC for test automation and real-time signal analysis.

Technical Specifications

Data rate range: 64 kbit/s to 2.5 Gbit/s (2488 Mbit/s STM-16/OC-48)

Multi-rate support: DS1 to OC-192c and E1 to STM-64c

Jitter/wander generation and analysis up to 2.5 Gbit/s

Output jitter, maximum tolerable jitter (MTJ), and jitter transfer function (JTF) measurement

Mapping and pointer jitter analysis

Peak-to-peak jitter measurement

MTIE and TDEV analysis

Test pattern generation: PRBS sequences ($2^{11}-1$, $2^{15}-1$, $2^{20}-1$, $2^{23}-1$) with inverted variants

Error insertion: bit errors, single error, or error ratio modes

Alarm generation: AU-AIS, AIS-C1 through C16, AU-LOP, LOP-C1 through C16

Key Features

Dual electrical/optical interface architecture supporting STM-16c/OC-48c electrical and STM-64/OC-192 optical signals

Signal structure analysis down to lowest layers at 2.5 Gbit/s

Performance analysis per G.826, G.821, M.2100

Overhead analysis: SOH/TOH capture and analysis

ATM broadband analyzer/generator with QoS testing for SVC and PVC

Bit error rate testing (BERT)

Automatic Prote

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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<https://aumictechlabs.com>

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.